

Amendments to the Specification

Please replace the paragraph beginning at page 15, line 24 with the following:

FIG. 4 is a schematic diagram showing details of radiation link 34A, according to a preferred embodiment of the present invention. In an up-link path 53, mobile transceiver 47 transmits an up-link RF signal to antenna 31A, which transfers the signal to a duplexer 41 comprised in AA-TC 29A. Duplexer 41 acts to convey the up-link RF signal from antenna 31A, and also to convey a down-link RF signal, described in more detail below, to the antenna. The up-link signal is passed to a band-pass filter (BPF) 44, which most preferably transmits in a bandwidth for conveying up-link signals defined by a protocol under which network 30 operates, such as 824-849 MHz, and rejects signals at other frequencies. The filtered signal from BPF 44 is amplified by a low noise amplifier (LNA) 46, and a second amplifier 48, which preferably provide a total gain of the order of 70 dB. The amplified up-link signal is input as a modulating signal to a light emitter 52. Most preferably, amplifiers 46 and 48 set a level of the output from amplifier 48 to provide a suitable modulation depth for an emitter 52. Most preferably, emitter 52 comprises a solid state laser diode. Alternatively, emitter 52 is any other suitable electromagnetic wave emitter, known in the art, that emits waves which may be modulated and detected. The modulation is implemented as any type of analog or digital modulation, or combination thereof, known in the art. As stated in US provisional application 60/259,815, which was incorporated by reference into the present application, the analog modulation may be in any form known in the art, such as amplitude modulation, frequency modulation, phase modulation, polarization modulation and/or combinations or derivatives of these modulations.

Please add the paragraph beginning at page 19, after line 9 with the following:

In an implementation described in above mentioned, incorporated by reference, US provisional application 60/247,060, the optical links also carry control and status information. This information makes it possible to adapt/control the link to a change in the channel and traffic conditions and to forward and control the link from a cellular network control center.